THEORETICAL POPULATION BIOLOGY

AN INTERNATIONAL JOURNAL

EDITORS

K. Dietz

S. Karlin
J. Roughgarden
T. Schoener
A. Templeton

ASSOCIATE EDITORS

P. Abrams
R. M. Anderson
B. Arthur
M. G. Bulmer
B. Charlesworth
M. T. Clegg
C. C. Cockerham
J. Cohen
W. Engels
W. J. Ewens
J. Felsenstein
W. D. Hamilton
J. M. Hoem
M. Kimura
B. Levin
W.-H. Li
C. Matessi
T. Nagylaki
T. Ohta
M. Slatkin
C. Strobeck
S. Tavaré
E. Thompson
M. Turelli
M. Uyenoyama
G. A. Watterson
B. S. Weir

MANAGING EDITOR

M. Feldman

VOLUME 27 • 1985

ACADEMIC PRESS, INC.

(Harcourt Brace Jovanovich, Publishers)

San Diego Orlando New York London

Toronto Montreal Sydney Tokyo

Copyright © 1985 by Academic Press, Inc.
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (27 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1985 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0040-5809/85 $3.00

Printed by the St. Catherine Press, Ltd., Bruges, Belgium

CONTENTS OF VOLUME 27

Number 1, February 1985

Donald E. Strebel. Environmental Fluctuations and Extinction—Single Species 1

F. A. Hopf and F. W. Hopf. The Role of the Allee Effect in Species Packing 27

Kermit Ritland. The Genetic Mating Structure of Subdivided Populations. I. Open-Mating Model 51

Zvia Agur and Jean Louis Deneubourg. The Effect of Environmental Disturbances on the Dynamics of Marine Intertidal Populations 75

M. E. Fisher, P. van den Driessche, and H. J. Barclay. A Density Dependent Model of Pheromone Trapping 91

Number 2, April 1985

Sigfrid Lundberg and Nils Chr. Stenseth. Coevolution of Competing Species: Ecological Character Displacement . . . 105

C. C. Heyde and Joel E. Cohen. Confidence Intervals for Demographic Projections Based on Products of Random Matrices 120

Anatoli I. Yashin, Kenneth G. Manton, and James W. Vaupel. Mortality and Aging in a Heterogeneous Population: A Stochastic Process Model with Observed and Unobserved Variables 154

Marcy K. Uyenoyama. Quantitative Models of Hybrid Dysgenesis: Rapid Evolution under Transposition, Extrachromosomal Inheritance, and Fertility Selection 176

Len Nunney. The Effect of Long Time Delays in Predator–Prey Systems 202

John H. Gillespie. The Interaction of Genetic Drift and Mutation with Selection in a Fluctuating Environment 222

Number 3, June 1985

Annikki Mäkelä. Differential Games in Evolutionary Theory: Height Growth Strategies of Trees 239

HANS REDLEF SIEGISMUND AND FREDDY BUGGE CHRISTIANSEN. Selection Component Analysis of Natural Polymorphisms Using Population Samples Including Mother–Offspring Combinations, III 268
G. A. WATTERSON. The Genetic Divergence of Two Populations 298
IVAR HEUCH AND ROLV T. LIE. Genotype Frequencies Associated with Incompatibility Systems in Tristylous Plants 318

AUTHOR INDEX FOR VOLUME 27 337

Digitized by the Internet Archive
in 2026

https://archive.org/details/theoretical-population-biology_1985_27_contents